	Application No.	Applicant(s)	
Notice of Allowability	10/689,980	SMART ET AL.	
	Examiner	Art Unit	
	Long K. Tran	2818	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate commIGHTS. This application is	in this application. If not included nunication will be mailed in due course.	
1. X This communication is responsive to November 14, 2005.			
2. ⊠ The allowed claim(s) is/are <u>14 - 30</u> .			
 Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: Certified copies of the priority documents have 	e been received.		
Certified copies of the priority documents have		***************************************	
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application from	n the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requireme	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			;
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	Informal Patent Application (PTO-152)	
Notice of Preferences Gled (170-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	<u>—</u>	Summary (PTO-413),	
	Paper No	o./Mail Date 's Amendment/Comment	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	7. 🖸 Examiner	s Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner 9. □ Other	's Statement of Reasons for Allowance	
Day	rd Nolma		
Supervisory	hid Nelms / Patent Examiner		
iechnolog	gy Center 2800		

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Response to Amendment

1. This office action is in response to Amendment filed on November 14, 2005.

2. Claims 1 – 13 have been cancelled.

3. Claim **14** has been amended.

4. Claim **30** has been added.

5. Claims **14 – 30** are presented for examination.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Chad Bevins on January 05, 2006.

The application has been amended as follows:

Claim 14, line 5: change "c)" to --b)--;

Claim 14, end of line 8: delete [.] and add --; wherein the depositing the passivation layer occurs after the depositing the one or more structural epitaxial layers step while within the growth chamber. --.

Allowable Subject Matter

7. Claims **14 – 30** are allowed.

8. The following is an examiner's statement of reasons for allowance: Claims 14 – 30 are allowable over the prior art of record because none of the prior art whether taken

singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach:

A method of growing a gallium nitride comprising depositing a thermally assisted silicon nitride passivation layer as a surface traps layer after depositing a structural epitaxial layers step and before the structural epitaxial layers being removed from an associated growth chamber; and among other limitations as cited in the independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long K. Tran whose telephone number is 571-272-1797. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LKT

January 5, 2006

Supervisory Patent Examiner Technology Center 2800

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